

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-22 (canceled).

1 Claim 23 (previously presented): Fibre-reinforced
2 pressurizable structure comprising a gas- or fluid-tight
3 body overwound as an isotensoide with a number of fibre
4 filaments, whereby the radius of the body varies with
5 respect to a rotation-symmetrical axis of the structure,
6 such that said body comprises a number of concave surface
7 sections spaced apart from the axial ends, each having a
8 local minimum radius, and a number of convex surface
9 sections spaced apart from the axial ends, each having a
10 local maximum radius, characterized in that at least one
11 concave surface section is continuously overwound with a
12 fibre as an isotensoide.

1 Claim 24 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the fibre windings in the at least one concave
4 surface section comprises in a non-pressurized state of the
5 structure a multiple number of substantially straight fibre
6 filaments forming a hyperboloid.

1 Claim 25 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized

3 in that the fluid-tight body is quasi-geodesically overwound
4 in a continuous fashion.

1 Claim 26 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the longitudinal orientation of the fibre along a
4 finite length thereof is orientated substantially
5 perpendicular with respect to the rotation symmetrical axis
6 of the structure.

1 Claim 27 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the fibre in a pressurized state undergoes torsion
4 with respect to its longitudinal centre-line, so that
5 substantially one side of the curved fibre remains in
6 contact with the body in the at least one concave surface
7 section.

1 Claim 28 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that in a pressurized state there is reversal of the side
4 of the curved fibre which is in contact with the body in the
5 at least one concave surface section.

1 Claim 29 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the body is flexible, i.e., non-rigid, and that the
4 fibres are supported by a matrix material.

1 Claim 30 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the axial length of at least one axial section of

4 the structure is variable with respect to the longitudinal
5 axis of the pressurizable structure.

1 Claim 31 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that at least one axial section of the structure is
4 pivotable with respect to the longitudinal axis of the
5 pressurizable structure.

1 Claim 32 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that at least one axial section of the structure is
4 pivotable with respect to an axis, which axis is orthogonal
5 with respect to the longitudinal axis of the pressurizable
6 structure.

1 Claim 33 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 30, characterized
3 in that at least one axial section of the structure
4 comprises a combination of at least two of the technical
5 elements of said claims, e.g. in that at least one axial
6 section of the structure is pivotable with respect to the
7 longitudinal axis of the pressurizable structure and that
8 the axial length of this axial section of the structure is
9 variable with respect to the longitudinal axis of the
10 pressurizable structure as in the case in which the
11 pressurizable structure comprises a substantially
12 hyperboloid shape.

1 Claim 34 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the pressurizable structure comprises a one- to

4 three dimensional arrangement of a number of pressurizable
5 fuel tanks or pipelines.

1 Claim 35 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 24, characterized
3 in that the pressurizable structure comprises a spring means
4 for a load-displacement function, preferably an adjustable
5 load-displacement function.

1 Claim 36 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the pressurizable structure comprises means for an
4 actuating function, such as for elevators, excavators and
5 industrial robots.

1 Claim 37 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the pressurizable structure comprises means for a
4 shoring or strutting function, such as construction beams.

1 Claim 38 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 37, characterized
3 in that the means for a shoring or strutting function, such
4 as construction beams, are adaptable to the
5 Eigen-frequencies of the pressurizable structure.